Color Television Type

VERTICAL DEFLECTION AMPLIFIER

6JC5/6JB5/6HE5

Beam Power Pentode

Construction..............Compactron T-12
Base ....Button 12 Pin, E12-74
Basing 12EY
Outline
Maximum Diameter .... 1.562 In.
Maximum Seated Height .... 2.750 In.
Maximum Overall Height ...... 3.125 In.

P NC NC NC K G3 G1 G2 G2 G1 K G3 H H 12EY

T12

ELECTRICAL DATA

HEATER OPERATION	
Heater Voltage	6.3 Volts
Heater Current	800 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak	200 Volts
Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak	200 Volts
DIRECT INTERELECTRODE CAPACITANCES (Unshielded)	
Grid No. 1 to Plate (Max.)	0.54 Pf
Input: g1 to (h + k + g2 + g3)	9.5 Pf
Output: p to (h + k + g2 + g3)	7.0 Pf
RATINGS (Design Maximum Rating System)	
Vertical Deflection Amplifier(1)	
Plate Voltage (Max.)	350 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.)	2500 Volts
Grid No. 2 Voltage (Max.)	300 Volts
Plate Dissipation (Max.)(2)	19 Watts
Grid No. 2 Input (Max.)(2)	2.75 Watts
Average Cathode Current (Max.)	75 Ma
Peak Cathode Current (Max.)	260 Ma
Bulb Temperature (Max.)	200 °C
Grid Circuit Resistance	
Fixed Bias (Max.)	1.0 Megohm
Cathode Bias (Max.)	2.2 Megohms
CHARACTERISTICS AND TYPICAL OPERATION	
Plate Voltage	250 Volts
Grid No. 2 Voltage	250 Volts
Grid No. 1 Voltage	–20 Volts
Plate Current	43 Ma
Grid No. 2 Current	3.5 Ma
Transconductance	4100 μmhos

Plate Resistance (Approx.)	5000 Ohms
Ec1 Voltage for Ib = 100 μa (Approx.)	–50 Volts

NOTES:

(1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

(2) In stages operating with grid-leak bias, an adequate bias resistor or other suitable means is required to protect the tube in the absence of excitation.